

Set Name Query

side by side

DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; THES=ASSIGNEE;
PLUR=YES; OP=AND

Hit Count Set Name

result set

| | | | |
|------------|--|------|------------|
| <u>L12</u> | L11 not L5 | 3 | <u>L12</u> |
| <u>L11</u> | L10 and (neural adj precursor) | 20 | <u>L11</u> |
| <u>L10</u> | L3 and (rosette or (neural adj tube)) | 23 | <u>L10</u> |
| <u>L9</u> | (neural adj precursor) same ((rosette) or (neural adj tube)) | 13 | <u>L9</u> |
| <u>L8</u> | L4 not L5 | 3 | <u>L8</u> |
| <u>L7</u> | L5 and (FGF adj 2) | 1 | <u>L7</u> |
| <u>L6</u> | L5 and (FGF-2) | 1 | <u>L6</u> |
| <u>L5</u> | L4 and (neural adj precursor) | 17 | <u>L5</u> |
| <u>L4</u> | L3 and (rosette or (neural adj tube)) | 20 | <u>L4</u> |
| <u>L3</u> | L2 and (embryoid adj (body or bodies)) | 96 | <u>L3</u> |
| <u>L2</u> | (primate or human) same ((embryonic adj stem) adj cell) | 3503 | <u>L2</u> |
| <u>L1</u> | Zhang-Su-Chun.in. | 2 | <u>L1</u> |

END OF SEARCH HISTORY

Status: Path 1 of [Dialog Information Services via Modem]

Status: Initializing TCP/IP using (UseTelnetProto 1 ServiceID pto-dialog)
Trying 31060000009999...Open

DIALOG INFORMATION SERVICES

PLEASE LOGON:

***** HHHHHHHH SSSSSSS?

Status: Signing onto Dialog

ENTER PASSWORD:

***** HHHHHHHH SSSSSSS? *****

Welcome to DIALOG

Status: Connected

Dialog level 02.15.02D

Last logoff: 13jun03 12:38:00

Logon file001 17jun03 14:08:19

*** ANNOUNCEMENT ***

--File 581 - The 2003 annual reload of Population Demographics is complete. Please see Help News581 for details.

--File 156 - The 2003 annual reload of ToxFile is complete. Please see HELP NEWS156 for details.

--File 990 - NewsRoom now contains February 2003 to current records. File 992 - NewsRoom 2003 archive has been newly created and contains records from January 2003. The oldest month's records roll out of File 990 and into File 992 on the first weekend of each month. To search all 2003 records BEGIN 990, 992, or B NEWS2003, a new OneSearch category.

--Connect Time joins DialUnits as pricing options on Dialog. See HELP CONNECT for information.

--CLAIMS/US Patents (Files 340, 341, 942) have been enhanced with both application and grant publication level in a single record. See HELP NEWS 340 for information.

--SourceOne patents are now delivered to your email inbox as PDF replacing TIFF delivery. See HELP SOURCE1 for more information.

--Important news for public and academic libraries. See HELP LIBRARY for more information.

--Important Notice to Freelance Authors--
See HELP FREELANCE for more information

NEW FILES RELEASED

***World News Connection (File 985)

***Dialog NewsRoom - 2003 Archive (File 992)

***TRADEMARKSCAN-Czech Republic (File 680)

***TRADEMARKSCAN-Hungary (File 681)

***TRADEMARKSCAN-Poland (File 682)

UPDATING RESUMED

RELOADED

***Population Demographics - (File 581)

***CLAIMS Citation (Files 220-222)

REMOVED

***U.S. Patents Fulltext 1980-1989 (File 653)

>>> Enter BEGIN HOMEBASE for Dialog Announcements <<<
>>> of new databases, price changes, etc. <<<

KWIC is set to 50.

HIGHLIGHT set on as '**'

* * * * See HELP NEWS 225 for information on new search prefixes
and display codes

File 1:ERIC 1966-2003/Jun 17
(c) format only 2003 The Dialog Corporation

Set Items Description

--- -----

Cost is in DialUnits

?b 155, 5, 73

17jun03 14:08:32 User259876 Session D517.1

\$0.33 0.094 DialUnits File1

\$0.33 Estimated cost File1

\$0.04 TELNET

\$0.37 Estimated cost this search

\$0.37 Estimated total session cost 0.094 DialUnits

SYSTEM:OS - DIALOG OneSearch

File 155: MEDLINE(R) 1966-2003/Jun W2

(c) format only 2003 The Dialog Corp.

***File 155: Medline has been reloaded and accession numbers have changed. Please see HELP NEWS 155.**

File 5: Biosis Previews(R) 1969-2003/Jun W2

(c) 2003 BIOSIS

File 73: EMBASE 1974-2003/Jun W2

(c) 2003 Elsevier Science B.V.

***File 73: Alert feature enhanced for multiple files, duplicates removal, customized scheduling. See HELP ALERT.**

Set Items Description

--- -----

?s ((neural (w) precursor) or (neroepithelial (w) cells) or (neural (w) stem (w) cells)
) (s) (rossette?)

893696 NEURAL

208751 PRECURSOR

1154 NEURAL (W) PRECURSOR

0 NEROEPITHELIAL

4353304 CELLS

0 NEROEPITHELIAL (W) CELLS

893696 NEURAL

309417 STEM

4353304 CELLS

1887 NEURAL (W) STEM (W) CELLS

78 ROSSETTE?

S1 0 ((NEURAL (W) PRECURSOR) OR (NEROEPITHELIAL (W) CELLS) OR
(NEURAL (W) STEM (W) CELLS)) (S) (ROSSETTE?)

?s ((neuroepithelial (w) cells) (s) (rossette?))

>>>Unmatched parentheses

?s (neuroepithelial (w) cells) (s) (rossette?)

6666 NEUROEPITHELIAL

4353304 CELLS

78 ROSSETTE?

S2 0 (NEUROEPITHELIAL (W) CELLS) (S) (ROSSETTE?)

?s (neural (w) rosette?)

893696 NEURAL
36663 ROSETTE?
S3 18 (NEURAL (W) ROSETTE?)

?rd s3
...completed examining records
S4 7 RD S3 (unique items)
?t s4/3,k/all

4/3,K/1 (Item 1 from file: 155)
DIALOG(R)File 155: MEDLINE(R)
(c) format only 2003 The Dialog Corp. All rts. reserv.

14483540 22190896 PMID: 12203723
Integration and differentiation of human embryonic stem cells transplanted to the chick embryo.
Goldstein Ronald S; Drukker Micha; Reubinoff Benjamin E; Benvenisty Nissim
Gonda Research Center, Faculty of Life Sciences, Bar-Ilan University, Ramat-Gan, Israel. goldst@mail.biu.ac.il
Developmental dynamics - an official publication of the American Association of Anatomists (United States) Sep 2002, 225 (1) p80-6, ISSN 1058-8388 Journal Code: 9201927
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

...tissues, including the dorsal root ganglion. Colonies grafted directly adjacent to the host neural tube produced primarily structures with the morphology and molecular characteristics of *neural* *rosettes*. These structures contain differentiated neurons as shown by beta-3-tubulin and neurofilament expression in axons and cell bodies. Axons derived from the grafted cells...

4/3,K/2 (Item 2 from file: 155)
DIALOG(R)File 155: MEDLINE(R)
(c) format only 2003 The Dialog Corp. All rts. reserv.

09338454 21097204 PMID: 11169149
Case report: Sinonasal teratocarcinosarcoma.
Endo H; Hirose T; Kuwamura K I; Sano T
First Department of Pathology, University of Tokushima School of Medicine, Kuramoto 3-18-15, Tokushima 770-5083, Japan.
Pathology international (Australia) Feb 2001, 51 (2) p107-12, ISSN 1320-5463 Journal Code: 9431380
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

... The resected tumors consisted of variegated components, such as epithelial elements, including cystic, ductal and glandular structures occasionally associated with squamous differentiation, neuroectodermal ones exhibiting *neural* *rosette* formation, and mesenchymal ones with prominent rhabdomyoblastic differentiation. Immunohistochemical and ultrastructural studies clearly demonstrated characteristic cellular differentiation of each component. These three principal elements were...

4/3,K/3 (Item 3 from file: 155)
DIALOG(R)File 155: MEDLINE(R)
(c) format only 2003 The Dialog Corp. All rts. reserv.

07898609 93359431 PMID: 8354665
Culturing the epiblast cells of the pig blastocyst.
Talbot N C; Rexroad C E; Pursel V G; Powell A M; Nel N D

U.S. Department of Agriculture, Beltsville Agricultural Research Center, Maryland 20705.

In vitro cellular & developmental biology. Animal (UNITED STATES) Jul 1993, 29A (7) p543-54, ISSN 1071-2690 Journal Code: 9418515

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... of small cells resembling mouse embryonic stem cells. This primary cell morphology changed as the colonies grew and evolved into three distinct colony types (endodermlike, *neural* *rosette*, or complex). Cell cultures derived from these three colony types spontaneously differentiated into numerous specialized cell types in STO co-culture. These included fibroblasts, endodermlike...

4/3, K/4 (Item 4 from file: 155)

DIALOG(R) File 155: MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

06975104 91215605 PMID: 2021944

Neural *rosette* formation within in vitro spheroids of a clonal human teratocarcinoma cell line, PA-1/NR: role of extracellular matrix components in the morphogenesis.

Kawata M; Sekiya S; Kera K; Kimura H; Takamizawa H

Department of Obstetrics and Gynecology, School of Medicine, Chiba University, Japan.

Cancer research (UNITED STATES) May 15 1991, 51 (10) p2655-69, ISSN 0008-5472 Journal Code: 2984705R

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Neural *rosette* formation within in vitro spheroids of a clonal human teratocarcinoma cell line, PA-1/NR: role of extracellular matrix components in the morphogenesis.

From the human teratocarcinoma-derived cell line PA-1, we established a clonal line, PA-1/NR, that stably produced a distinct cellular arrangement of *neural* *rosettes* when cultured as in vitro multicellular spheroids for 3 weeks. On immunofluorescence staining and fluorescence-activated cell sorter analyses, PA-1/NR cells in monolayer...

4/3, K/5 (Item 5 from file: 155)

DIALOG(R) File 155: MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

03994342 83123002 PMID: 6760649

Cerebrovascular pathogenesis in the telencephalon of the loop-tail mouse: a transmission electron-microscopic study.

Wilson D B

Acta neuropathologica (GERMANY, WEST) 1982, 58 (3) p177-82, ISSN 0001-6322 Journal Code: 0412041

Contract/Grant No.: HD 09562; HD; NICHD

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... tail mutant mice were studied chronologically by means of electron microscopy at stages ranging from 15 through 18 days of gestation. In the abnormal tissue, *neural* *rosettes* were common, and cellular material and red blood cells were often contained within the lumen of the rosettes. The endothelial cells of telencephalic blood vessels...

4/3,K/6 (Item 6 from file: 155)

DIALOG(R) File 155: MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

02264994 76225940 PMID: 936418

Malignant teratoid medulloepithelioma in a dog.

Lahav M; Albert D M; Kircher C H; Percy D H

Veterinary pathology (SWITZERLAND) 1976, 13 (1) p11-6, ISSN

0300-9858 Journal Code: 0312020

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... as teratoid formations derived from the embryonic anlage of the medullary epithelium. The more posterior part was highly anaplastic and invasive. A transitional area contained *neural* *rosettes* of the Flexner-Wintersteiner type. This tumor is rare in both man and animals.

4/3,K/7 (Item 1 from file: 5)

DIALOG(R) File 5:Biosis Previews(R)

(c) 2003 BIOSIS. All rts. reserv.

12971991 BIOSIS NO.: 200100179140

Sinonasal teratocarcinosarcoma.

AUTHOR: Endo Hideko(a); Hirose Takanori; Kuwamura Kei-ichi; Sano Toshiaki

AUTHOR ADDRESS: (a)First Department of Pathology, University of Tokushima School of Medicine, Kuramoto 3-18-15, Tokushima, 770-5083**Japan

JOURNAL: Pathology International 51 (2):p107-112 February, 2001

MEDIUM: print

ISSN: 1320-5463

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

...ABSTRACT: The resected tumors consisted of variegated components, such as epithelial elements, including cystic, ductal and glandular structures occasionally associated with squamous differentiation, neuroectodermal ones exhibiting *neural* *rosette* formation, and mesenchymal ones with prominent rhabdomyoblastic differentiation. Immunohistochemical and ultrastructural studies clearly demonstrated characteristic cellular differentiation of each component. These three principal elements were...

?ds

Set Items Description

S1 0 ((NEURAL (W) PRECURSOR) OR (NEUROEPITHELIAL (W) CELLS) OR (- NEURAL (W) STEM (W) CELLS)) (S) (ROSETTE?)

S2 0 (NEUROEPITHELIAL (W) CELLS) (S) (ROSETTE?)

S3 18 (NEURAL (W) ROSETTE?)

S4 7 RD S3 (unique items)

?s (neural (w) precursor) or (neuroepithelial (w) cells) or (neural (w) stem (w) cells) and (rosette?)

>>>Unmatched parentheses

?s ((neural (w) precursor) or (neuroepithelial (w) cells) or (neural (w) stem (w) cells)) and (rosette?)

Processing

893696 NEURAL

208751 PRECURSOR

1154 NEURAL (W) PRECURSOR

6666 NEUROEPITHELIAL

4353304 CELLS

2032 NEUROEPITHELIAL (W) CELLS

893696 NEURAL

309417 STEM

4353304 CELLS
1887 NEURAL (W) STEM (W) CELLS
36663 ROSETTE?
S5 64 ((NEURAL (W) PRECURSOR) OR (NEUROEPITHELIAL (W) CELLS) OR
(NEURAL (W) STEM (W) CELLS)) AND (ROSETTE?)
?rd
...examined 50 records (50)
...completed examining records
S6 31 RD (unique items)
?t s6/3,k/all

6/3,K/1 (Item 1 from file: 155)
DIALOG(R) File 155: MEDLINE(R)
(c) format only 2003 The Dialog Corp. All rts. reserv.

14542262 22196426 PMID: 12211643
5-Azacytidine (5AzC)-induced histopathological changes in the central nervous system of rat fetuses.

Ueno Masaki; Katayama Kei-ichi; Yasoshima Akira; Nakayama Hiroyuki; Doi Kunio

Department of Veterinary Pathology, Graduate School of Agricultural and Life Sciences, The University of Tokyo, Japan.
aa27148@mail.ecc.u-tokyo.ac.jp

Experimental and toxicologic pathology - official journal of the Gesellschaft fur Toxikologische Pathologie (Germany) Aug 2002, 54 (2) p91-6, ISSN 0940-2993 Journal Code: 9208920

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... obtained from dams treated with 5AzC (10 mg/kg) on day 13 of gestation (GD13). At 6 hours after treatment (HAT), a prominent accumulation of *neuroepithelial* *cells* showing pleomorphic mitotic figures were observed in the telencephalic wall. The mitosis-index peaked at 6 HAT, and decreased thereafter. *Neuroepithelial* *cells* positive for nick end labeling (TUNEL) method, which is widely used for the detection of apoptotic cells, prominently increased at 9 HAT, and the TUNEL-index peaked at 12 HAT. TUNEL-positive cells showed ultrastructural characteristics of apoptosis. At 24 HAT, the formation of *rosette*-like structures was observed in the fetal brain. From the results of the present study, it was evident that abnormal mitosis and neuronal apoptosis were...

6/3,K/2 (Item 2 from file: 155)
DIALOG(R) File 155: MEDLINE(R)
(c) format only 2003 The Dialog Corp. All rts. reserv.

11401791 98283330 PMID: 9622011
Basic FGF-responsive telencephalic precursor cells express functional GABA(A) receptor/Cl⁻channels in vitro.

Ma W; Liu Q Y; Maric D; Sathanoori R; Chang Y H; Barker J L
Biotechnology Research and Applications Division, Science Applications International Corporation, Rockville, Maryland 20850, USA.

Journal of neurobiology (UNITED STATES) Jun 1998, 35 (3) p277-86,
ISSN 0022-3034 Journal Code: 0213640

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... gamma-aminobutyric acid (GABA)A receptor subunits and their transcripts in the cortical neuroepithelium (Ma and Barker, 1995, 1998). However, it is not clear whether *neural* *precursor* cells exposed to basic fibroblast growth factor (bFGF) in vitro reproduce the biological properties of *neuroepithelial* *cells* in vivo within the embryonic ventricular zone. In the present study, *neural* *precursor* cells were

isolated from the telencephalic neuroepithelium of embryonic day 13-13.5 rats and exposed to bFGF in serum-free medium. Basic FGF-responsive cells were capable of dividing and differentiating into neurons and astrocytes. The rapidly dividing cells formed multicellular spheres and then a *rosette* -like formation in which a majority of cells expressed GABA(A) receptor alpha4, beta1, or gamma1 subunit proteins. We found in perforated patch-clamp recordings...

6/3,K/3 (Item 3 from file: 155)
DIALOG(R) File 155: MEDLINE(R)
(c) format only 2003 The Dialog Corp. All rts. reserv.

11072498 97427332 PMID: 9424228
Mitotic activity and *rosette* formation in the neuroepithelium of the embryonic human neocortex in vitro]
Mitoticheskai aktivnost' i obrazovanie rozetok v neiroepitelii embrional'nogo neokorteksa cheloveka in vitro.
Smirnov E B; Bystron' I P; Puchkov V F; Otellin V A
Morfologiya (Saint Petersburg, Russia) (RUSSIA) 1997, 112 (4) p29-32
, ISSN 1026-3543 Journal Code: 9317610
Document type: Journal Article ; English Abstract
Languages: RUSSIAN
Main Citation Owner: NLM
Record type: Completed

Mitotic activity and *rosette* formation in the neuroepithelium of the embryonic human neocortex in vitro]
...anterior cerebral vesicle wall were exposed in 6-8 weeks human embryos and cultured for up to 48 hrs in media 199. Two types of *neuroepithelial* *cells* dynamics were demonstrated: the first one is associated with invaginative movements of the layer (apical contractions and elongation of neuroepithelial cell processes are seen, the...

Descriptors: Cerebral Cortex--embryology--EM; *Mitosis; **Rosette* Formation

6/3,K/4 (Item 4 from file: 155)
DIALOG(R) File 155: MEDLINE(R)
(c) format only 2003 The Dialog Corp. All rts. reserv.

10809271 97098999 PMID: 8983511
The reactions of *neuroepithelial* *cells* in different parts of the brain in mouse embryos to the action of ionizing radiation]
Reaktsii kletok neiroepitelii raznykh otdelov mozga embrionov myshei na deistvie ioniziruiushchey radiatsii.
Khozhai L I; Otellin V A
Morfologiya (Saint Petersburg, Russia) (RUSSIA) 1996, 110 (4) p71-4,
ISSN 1026-3543 Journal Code: 9317610
Document type: Journal Article ; English Abstract
Languages: RUSSIAN
Main Citation Owner: NLM
Record type: Completed

The reactions of *neuroepithelial* *cells* in different parts of the brain in mouse embryos to the action of ionizing radiation]
Dynamics of *neuroepithelial* *cells* reaction was studied in different areas of brain obtained from mouse embryos affected by X-rays irradiation on 10th, 12th and 13th days of pregnancy...

... differentiation starts after the irradiation regeneration processes arise along with cell death. This develops in all brain areas due to total mitotic division of unchanged *neuroepithelial* *cells*. Forming of *rosettes* on proliferative centers is mainly characteristic for the forebrain. After the irradiation of mice at 1-2 days pregnancy *rosettes* form only in rostral part of anterior encephalic vesicle. In irradiation on 13th pregnancy day a significant number forms in rostral, lateral and

dorsal parts of the embryo. forebrain. Irradiation on the 4th day causes the forming of the *rosettes* in the forebrain ventral part.

...; cytology--CY; Brain--embryology--EM; Epithelial Cells; Epithelium--embryology--EM; Epithelium--radiation effects--RE; Mice; Mice, Inbred C57BL; Mice, Inbred CBA; Mitosis--radiation effects--RE; *Rosette* Formation; Time Factors

6/3,K/5 (Item 5 from file: 155)

DIALOG(R) File 155: MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

10809264 97098992 PMID: 8983503

***Rosette* formation in explants of human embryonic neocortex (an electron-microscopic study)]**

Obrazovanie rozentok v eksplantatakh neokorteksa embrionov cheloveka (elektronno-mikroskopicheskoe issledovanie).

Smirnov E B; Puchkov V F; Otellin V A

Morfologiya (Saint Petersburg, Russia) (RUSSIA) 1996, 110 (4) p33-6,

ISSN 1026-3543 Journal Code: 9317610

Document type: Journal Article ; English Abstract

Languages: RUSSIAN

Main Citation Owner: NLM

Record type: Completed

***Rosette* formation in explants of human embryonic neocortex (an electron-microscopic study)]**

Multiple invaginations and closed cavities (*rosettes*) were developed in 199 fragments of wall of human anterior cerebral vesicle. Contraction of *neuroepithelial* *cells* apexes after the principle of the gathered tobacco pouch was involved into the process. This confirms the previous suggestion of the authors on the similarity between the mechanisms of *rosettes* forming and neurulation. The participation of radial glia cells and neuroblasts in the reorganization of the neocortex germ was also studied.

; Cells, Cultured; Cytological Techniques; Gestational Age; Microscopy, Electron; Neuroglia--ultrastructure--UL; Pia Mater--embryology--EM; Pia Mater--ultrastructure--UL; *Rosette* Formation

6/3,K/6 (Item 6 from file: 155)

DIALOG(R) File 155: MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

10497593 96308131 PMID: 8718638

[The development of transplants of human embryonic neocortex in the anterior chamber of the rat eye]

Razvitiye transplantatov neokorteksa embrionov cheloveka v perednei kamere glaza krysy.

Smirnov E B; Gusikhina V I; Puchkov V F; Otellin V A

Morfologiya (Saint Petersburg, Russia) (RUSSIA) Apr-Jun 1994, 106 (4-6) p75-82, ISSN 1026-3543 Journal Code: 9317610

Document type: Journal Article ; English Abstract

Languages: RUSSIAN

Main Citation Owner: NLM

Record type: Completed

... Intensive neuroblast degeneration in cortical and interstitial zones as well as decrease of mitotically deviding cell number were observed 3-6 hours after the transplantation. *Neuroepithelial* *cells* form *rosettes* in ventricular zone by the end of the first day. *Rosettes* turned into the centres of proliferation, mitotic activity restored to the initial level. Cells migrated out of the *rosettes* in radial directions. By the end of the third day almost all the cells in cortical and interstitial zones degenerated, transplant was almost completely represented...

6/3,K/7 (Item 7 from file: 155)

DIALOG(R) File 155: MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

09412416 21179345 PMID: 11283949

Structural abnormalities develop in the brain after ablation of the gene encoding nonmuscle myosin II-B heavy chain.

Tullio A N; Bridgman P C; Tresser N J; Chan C C; Conti M A; Adelstein R S
; Hara Y

Laboratory of Molecular Cardiology, National Heart, Lung, and Blood
Institute, National Institutes of Health, Bethesda, MD 20892, USA.

Journal of comparative neurology (United States) Apr 23 2001, 433 (1)
p62-74, ISSN 0021-9967 Journal Code: 0406041

Contract/Grant No.: NS26150; NS; NINDS

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... and disordered cell migration of neuroepithelial and differentiated
cells were seen at various points in the ventricular walls. These
abnormalities resulted in the formation of *rosettes* in various regions of
the brain and spinal cord. On E13.5 and E15, disruption of the ventricular
surface and aberrant protrusions of neural cells...

... due to stenosis or occlusion of the third ventricle and cerebral
aqueduct. These defects may be caused by abnormalities in the cell adhesive
properties of *neuroepithelial* *cells* and suggest that NMHC-B is
essential for both early and late developmental processes in the mammalian
brain. Copyright 2001 Wiley-Liss, Inc.

6/3,K/8 (Item 8 from file: 155)

DIALOG(R) File 155: MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

08660884 95349481 PMID: 7542736

**Mechanisms in the induction of neuronal heterotopiae following prenatal
cytotoxic brain damage.**

Zhang L L; Collier P A; Ashwell K W

School of Anatomy, University of NSW, Sydney, Australia.

Neurotoxicology and teratology (UNITED STATES) May-Jun 1995, 17 (3)
p297-311, ISSN 0892-0362 Journal Code: 8709538

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... abnormalities of radial glia which might be responsible for the
production of heterotopiae. Several structural abnormalities such as
microcavitation, involvement of radial glial elements in *rosettes*,
disturbance of the normal ventricular lining, and disruption of the
attachment of radial glial endfeet to the pial surface were identified. We
propose that periventricular heterotopiae result from disruption of the
palisade arrangement of *neuroepithelial* *cells* in the ventricular zone
and the involvement of radial glial elements in *rosettes*. Layer I
heterotopiae may arise from abnormalities of the distal segments of radial
glia and their attachment to the pia. No prenatal abnormalities in radial
...

6/3,K/9 (Item 9 from file: 155)

DIALOG(R) File 155: MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

08426516 95114604 PMID: 7815072

Ependymal reactions to injury. A review.
Sarnat H B

Department of Pediatrics, University of Washington School of Medicine, Seattle.

Journal of neuropathology and experimental neurology (UNITED STATES) Jan 1995, 54 (1) p1-15, ISSN 0022-3069 Journal Code: 2985192R

Comment in J Neuropathol Exp Neurol. 1995 May;54(3) 405-6; Comment in PMID 7745440

Document type: Journal Article; Review; Review, Tutorial

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... cases reactive gliosis is minimal, but in most it is extensive and gliotic nodules form beneath intact ependyma and within gaps between ependymal islands. Ependymal *rosettes* may form in several ways: sequestration of diverticuli from the surface; curling of a torn edge or penetration of an edge into the parenchyma; reactive gliosis overgrowing an ependymal edge; in situ differentiation of ependymal cells from deep *neuroepithelial* *cells*. Migration and metaplasia are unlikely mechanisms. Bacterial and fungal ependymitis are highly destructive. Several viruses, especially mumps, selectively infect ependymal cells and are an important...

6/3,K/10 (Item 10 from file: 155)

DIALOG(R) File 155: MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

08109406 94175166 PMID: 8129041

A model for primitive neuroectodermal tumors in transgenic neural transplants harboring the SV40 large T antigen.

Eibl R H; Kleihues P; Jat P S; Wiestler O D

Department of Pathology (Neuropathology), University of Zurich, Switzerland.

American journal of pathology (UNITED STATES) Mar 1994, 144 (3) p556-64, ISSN 0002-9440 Journal Code: 0370502

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... 14 (57%) neural grafts after latency periods of 176 to 311 days. Histopathologically, the tumors exhibited features of human PNET such as formation of neuroblastic *rosettes* and immunocytochemical evidence for neuronal differentiation, synaptogenesis, and focal astrocytic differentiation. All neoplasms showed a striking migratory potential. The presence of the large T gene...

... of these cells retained the characteristic morphological and immunocytochemical properties of PNETs. These experiments demonstrate a considerable transforming potential of SV40 large T antigen for *neural* *precursor* cells. The long latency period suggests that neoplastic transformation initiated by the large T gene requires additional spontaneous mutations of cooperating cellular genes. Because the...

6/3,K/11 (Item 11 from file: 155)

DIALOG(R) File 155: MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

07389763 92252959 PMID: 1579201

The induction of neural tube defects by maternal hyperthermia: a comparison of the guinea-pig and human.

Smith M S; Upfold J B; Edwards M J; Shiota K; Cawdell-Smith J

School of Anatomy, University of New South Wales, Australia.

Neuropathology and applied neurobiology (ENGLAND) Feb 1992, 18 (1) p71-80, ISSN 0305-1846 Journal Code: 7609829

Document type: Journal Article

Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

... defects such as microphthalmia, and scoliosis or kyphosis. The NTD were most common in the developing hindbrain and all demonstrated considerable infoldings of neural tissue, *rosettes* of *neuroepithelial* *cells*, outpocketings of neural tissue and large cystic cavities beneath the defect. In human examples from the Kyoto Human Embryo Collection, 16 had verified hyperthermic insults...

6/3,K/12 (Item 12 from file: 155)
DIALOG(R) File 155: MEDLINE(R)
(c) format only 2003 The Dialog Corp. All rts. reserv.

06519528 90144544 PMID: 2618927
Aberrant differentiation of *neuroepithelial* *cells* in developing mouse brains subsequent to retinoic acid exposure in utero.

Yasuda Y; Konishi H; Matsuo T; Kihara T; Tanimura T
Department of Anatomy, Kinki University School of Medicine, Osaka, Japan.
American journal of anatomy (UNITED STATES) Nov 1989, 186 (3)
p271-84, ISSN 0002-9106 Journal Code: 0376312

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Aberrant differentiation of *neuroepithelial* *cells* in developing mouse brains subsequent to retinoic acid exposure in utero.

... folds in the mesencephalon with the discontinuity of the apical terminal sheet. The continuous disorganization was seen from the olfactory placode to the myelencephalon with *rosettes* of cells and many dense bodies in the neuroepithelium. Ultrastructurally, cells in the localized disorganizations showed swelling of Golgi complexes, coated vesicles, and rough endoplasmic...

...and cytoplasm showed monosomal dispersion. In both types of disorganized neuroepithelium, junctional complexes were seen focally at the apical side or apical processes of the *rosette*, with few or no microfilament bundles. A layer of microfilaments at the base of the *neuroepithelial* *cells* in controls, just above the basal lamina, was not present in the monosome dispersed cytoplasm. In the neuroepithelium of controls, one phagosome was seen in...

... in a cell, and phagocytosis occurred by pseudopods. These findings suggest that all-trans-retinoic acid induces not only cytotoxicity but also dedifferentiation in the *neuroepithelial* *cells* leading to more cell death, which activates the phagocytosis. These lesions in the neuroepithelium may be a cause of exencephaly.

6/3,K/13 (Item 13 from file: 155)
DIALOG(R) File 155: MEDLINE(R)
(c) format only 2003 The Dialog Corp. All rts. reserv.

06442275 90066967 PMID: 2586719
An immunohistochemical characterization of the primitive and maturing neuroepithelial components in the OTT-6050 transplantable mouse teratoma.

Caccamo D V; Katsetos C D; Frankfurter A; Collins V P; Vandenburg S R; Herman M M

Department of Pathology, University of Virginia School of Medicine, Charlottesville 22908.

Neuropathology and applied neurobiology (ENGLAND) Sep-Oct 1989, 15 (5) p389-405, ISSN 0305-1846 Journal Code: 7609829
Contract/Grant No.: CA 31271; CA; NCI; NS 21142; NS; NINDS; NS 22455; NS; NINDS

Document type: Journal Article

Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

... This was correlated to the appearance and localization of other markers associated with neuronal and glial differentiation. The primitive neuroepithelial structures resembling neural tubes (medulloepithelial *rosettes*) contained single or small groups of cells which reacted with the monoclonal antibody TUJ1, specific for the neuron-associated class III beta-tubulin isotype. Immature...

... tau, the 200 kilodalton isoform of neurofilament protein, neuron-specific enolase and synaptophysin was primarily seen in maturing neurons. By comparison, both medulloepithelial and ependymoblastic *rosettes*, neuroblasts and glial cells were immunopositive with monoclonal antibody TU27, which defines an antigenic site shared by most mammalian beta-tubulin isotypes. Astroglia were reactive...

...preserved in maturing neuronal populations, and (3) it is not present at detectable levels in stem cells or glial cells. The observation that morphologically undifferentiated *neuroepithelial* *cells* express a neuron-associated beta-tubulin isotype signifies the value of examining tubulin isotype expression in the characterization of normal and neoplastic neuroepithelial differentiation.

6/3,K/14 (Item 14 from file: 155)
DIALOG(R)File 155: MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

05366752 87044989 PMID: 3776467

The ultrastructure of the ependymoblastoma.
Langford L A
Acta neuropathologica (GERMANY, WEST) 1986, 71 (1-2) p136-41, ISSN
0001-6322 Journal Code: 0412041
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

The ependymoblastoma is a rare, primitive neuroectodermal tumor morphologically distinct from the ependymoma and the malignant or anaplastic ependymoma. This neoplasm is characterized by uniform *neuroepithelial* *cells*, ependymoblastic *rosettes*, perivasculär pseudorosettes and numerous mitotic figures. The fine structure of this neoplasm is characterized by a predominant population of well-differentiated ependymal cells and intermingling...

6/3,K/15 (Item 15 from file: 155)
DIALOG(R)File 155: MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

05275141 86276406 PMID: 2426177

Primitive neuroectodermal (neuroepithelial) tumour of soft tissue of the neck in a child: demonstration of neuronal and neuroglial differentiation.
Shuangshoti S
Histopathology (ENGLAND) Jun 1986, 10 (6) p651-8, ISSN 0309-0167
Journal Code: 7704136
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

... girl had a pathologically proven primitive neuroectodermal (neuroepithelial) tumour of soft tissue in the left posterolateral aspect of the neck. The neoplasm consisted of primitive *neuroepithelial* *cells*

forming Homer Wright rosettes*, mature ganglion cells and astrocytes. Astroglia were identified by localization of cytoplasmic glial fibrillary acidic protein (GFAP). Striking similarity is noted between the current tumour...

... the tumour from the neuroectodermal component of an ectomesenchymal remnant of the neural crest. Differentiation of the neuroectodermal component of the neural crest into primitive *neuroepithelial* *cells* could result in the occurrence of a primitive neuroectodermal neoplasm which may further differentiate into neurons and neuroglia.

6/3,K/16 (Item 16 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

05254454 86255608 PMID: 3014224

Melanotic primitive neuroectodermal (neuroepithelial) tumor of medulla.

Shuangshoti S

Journal of surgical oncology (UNITED STATES) May 1986, 32 (1) p37-42
ISSN 0022-4790 Journal Code: 0222643

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

A 69-year-old man had a melanotic primitive neuroectodermal tumor of the medulla displaying various neuroepithelial elements including undifferentiated *neuroepithelial* *cells* forming Homer Wright's *rosettes* as well as neoplastic neuroglia resembling those seen in medulloblastoma. The neuroglial tumor cells were verified by demonstrating glial fibrillary acidic protein (GFAP) in the...

6/3,K/17 (Item 17 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

05014960 86015106 PMID: 4047519

Nerve cell degeneration and progeny survival following ethylenethiourea treatment during pregnancy in rats.

Khera K S; Tryphonas L

Neurotoxicology (UNITED STATES) Fall 1985, 6 (3) p97-102, ISSN 0161-813X Journal Code: 7905589

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... cord showed obliteration and duplication of the central canal and disorganization of germinal and mantle layers. In the brain, the ventricular lining was focally denuded, *neuroepithelial* *cells* were arranged in the form of *rosettes* and the nerve cell proliferation was disorganized. In the 15 mg of ETU/kg group, cellular necrosis was less severe and consisted of degeneration in...

6/3,K/18 (Item 18 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

04845071 85151572 PMID: 3978547

Ependymoblastoma. A reappraisal of a rare embryonal tumor.

Mork S J; Rubinstein L J

Cancer (UNITED STATES) Apr 1 1985, 55 (7) p1536-42, ISSN 0008-543X
Journal Code: 0374236

Document type: Journal Article

Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

... the clinicopathologic features of 12 ependymoblastomas, including those of 7 previously unreported cases. The histologic characteristics included a high density of small to medium-sized *neuroepithelial* *cells* with a uniform cytologic appearance, frequent mitotic figures, and numerous diagnostic ependymal *rosettes* and tubules. Differentiation was restricted to glial precursor cells and to cells with the differentiating features of ependymal cells. Cytogenetically, the tumor cells with the differentiating hallmarks of ependymal cells but which have retained their mitotic activity were considered to be ependymoblasts. Many of the *rosettes* in the tumors were of the ependymoblastic type, but ependymal *rosettes* were also present. The absence of pleomorphism, giant cells, multinucleation and pseudopalisades, and the scanty proliferation of vascular endothelial cells are additional features that delineate...

6/3,K/19 (Item 19 from file: 155)
DIALOG(R)File 155: MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

03584404 81276867 PMID: 7269228

Neural differentiation in the OTT-6050 mouse teratoma. Production of a tumor fraction restricted to stem cells and neural cells after centrifugal elutriation.

VandenBerg S R; Chatel M; Griffiths O M; DeArmond S J; Pappas C; Herman M M

Virchows Archiv. A, Pathological anatomy and histology (GERMANY, WEST) 1981, 392 (3) p281-94, ISSN 0340-1227 Journal Code: 7505137

Contract/Grant No.: CA 11689; CA; NCI; NS 5 T32 NS 7111; NS; NINDS

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Dissociation and centrifugal elutriation procedures were applied to subcutaneous transplants of the OTT-6050 mouse teratoma line in order to enrich the *neuroepithelial* *cells*. One of the resultant cell fractions, designated IB-21, was then implanted beneath the renal capsule of syngeneic mice and rebanked every 3 to 6...

... passages resulted in a tumor restricted to stem cells and neural cells (neuroblasts and glial cells). The primitive neural cells lost the ability to form *rosettes* after the early transplants. Subcutaneous or intracerebral transplantation of these tumors evinced their capacity for further neuroepithelial differentiation, with the demonstration of astrocytes and occasional...

6/3,K/20 (Item 20 from file: 155)
DIALOG(R)File 155: MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

02841852 79015999 PMID: 695223

Malignant medulloepithelioma of the optic nerve in a horse.

Eagle R C; Font R L; Swerczek T W

Veterinary pathology (SWITZERLAND) Jul 1978, 15 (4) p488-94, ISSN 0300-9858 Journal Code: 0312020

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... was a malignant medulloepithelioma, a rare intraocular neoplasm derived from the primitive medullary epithelium. By light microscopy the

tumor had cords and ~~les~~ules of primitive *neuroepithelial* *cells* that formed clefts and true rosettes*. Electron microscopy of the *rosettes* showed a girdle of zonulae adherentes joining the apices of the cells as well as several basal bodies. This is the sixth report of equine...

6/3, K/21 (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2003 BIOSIS. All rts. reserv.

14273781 BIOSIS NO.: 200300267810

DIFFERENTIATION OF NEURAL PRECURSORS FROM RHESUS MONKEY EMBRYONIC STEM CELLS.

AUTHOR: Piscitelli G M(a); Zhang S C(a)

AUTHOR ADDRESS: (a)Neuroscience Training Program, Anatomy, Neurology, Waisman Center, Univ Wisconsin Madison, Madison, WI, USA**USA

JOURNAL: Society for Neuroscience Abstract Viewer and Itinerary Planner 2002pAbstract No 75 2002

MEDIUM: cd-rom

CONFERENCE/MEETING: 32nd Annual Meeting of the Society for Neuroscience Orlando, Florida, USA November 02-07, 2002

SPONSOR: Society for Neuroscience

RECORD TYPE: Abstract

LANGUAGE: English

...ABSTRACT: 2 was applied to adherent cultures of EBs to induce neural differentiation. As EBs were differentiated, we observed cell aggregates forming a neural tube-like *rosette* pattern within the center of 96% of EBs between days 3 and 7. Immunocytochemical analyses indicated that cells of the *rosette* formation expressed the *neural* *precursor* markers, nestin and PSA-NCAM. The *rosettes* were isolated using a low concentration of dispase, followed by differential adhesion. After the isolation procedure, 95% of the cells expressed nestin and 70% expressed ...

DESCRIPTORS:

...ORGANISMS: PARTS ETC: *neural* *precursor* cells

6/3, K/22 (Item 2 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2003 BIOSIS. All rts. reserv.

13373643 BIOSIS NO.: 200200002464

In vitro differentiation and transplantation of human ES cell-derived neural precursors.

AUTHOR: Duncan I D(a); Zhang S C; Wernig M; Brustle O; Thomson J A

AUTHOR ADDRESS: (a)Dept Med Sci, Univ Wisconsin Sch Vet Med, Madison, WI** USA

JOURNAL: Society for Neuroscience Abstracts 27 (2):p2087 2001

MEDIUM: print

CONFERENCE/MEETING: 31st Annual Meeting of the Society for Neuroscience San Diego, California, USA November 10-15, 2001

ISSN: 0190-5295

RECORD TYPE: Abstract

LANGUAGE: English

...ABSTRACT: precursors. Neural differentiation was initiated in embryoid bodies and enhanced by FGF2. Neural precursors expressing nestin, Musashi-1 and PSA-NCAM formed neural tube-like *rosette* formations which could be enriched to 96% purity by a combination of selective enzymatic digestion and differential adhesion. Following withdrawal from FGF2, the neural precursors...

DESCRIPTORS:

...ORGANISMS: PARTS ETC: *neural* *precursor* cell

METHODS & EQUIPMENT: *neural* *precursor* transplantation...

6/3, K/23 (Item 3 from file: 5)
DIALOG(R) File 5:Biosis Reviews(R)
(c) 2003 BIOSIS. All rts. reserv.

13360160 BIOSIS NO.: 200100567309

Abnormal ultrastructure of *neuroepithelial* *cells* and development of brain deformity in nonmuscle myosin heavy chain II-B knockout mice.

AUTHOR: Hara Y(a); Shishido-Hara Y(a); Ichinose S; Hirata Y; Adelstein R S
AUTHOR ADDRESS: (a)Lab. Molecular Neurobiology, Human Gene Sciences Center, Tokyo Med. Dent. Univ., Tokyo**Japan

JOURNAL: Society for Neuroscience Abstracts 27 (2):p2060 2001

MEDIUM: print

CONFERENCE/MEETING: 31st Annual Meeting of the Society for Neuroscience San Diego, California, USA November 10-15, 2001

ISSN: 0190-5295

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

Abnormal ultrastructure of *neuroepithelial* *cells* and development of brain deformity in nonmuscle myosin heavy chain II-B knockout mice.

...ABSTRACT: prominent in axons and dendrites of neurons from E14.5 and later. NMHC-B null mice show the focal disruption of the ventricular surface of *neuroepithelial* *cells* from E12.5 and develop brain deformity with obstructive hydrocephalus and die on E15-P0. To understand the primary structural abnormality of *neuroepithelial* *cells* in NMHC-B null mice, we analyzed the ultrastructure of the *neuroepithelial* *cells* of E10.5 by scanning and transmission electron microscopy. NMHC-B knockout mice show the focal defect in adherence of *neuroepithelial* *cells*, especially in the ventricular surface. Neuroepithelial cell membranes terminating to the ventricular surface are not adhered well, with the wide extracellular space compared to normal...

...ventricular surface is swelled focally as a single cellular unit and has the small to large punctured holes. Furthermore, the abnormal layers of small ventricular *rosettes* are formed within the neuroepithelial layer, indicating defect in cell migration. We suggest this early ultrastructural abnormality of *neuroepithelial* *cells* is the primary cause of development of brain deformity in NMHC-B knockout mice.

6/3, K/24 (Item 4 from file: 5)
DIALOG(R) File 5:Biosis Reviews(R)
(c) 2003 BIOSIS. All rts. reserv.

10751122 BIOSIS NO.: 199799372267

Differentiation and morphogenesis in pellet cultures of developing rat retinal cells.

AUTHOR: Watanabe Takashi(a); Voyvodic James T; Chan-Ling Tairoi; Sagara Hiroshi; Hirosawa Kazushige; Mio Yasuko; Matsushima Satsuke; Uchimura Hidemasa; Nakahara Kazuhiko; Raff Martin C

AUTHOR ADDRESS: (a)Dep. Clinical Pathology, Kyorin Univ. Sch. Med., 6-20-2 Shinkawa, Mitaka, Tokyo 181**Japan

JOURNAL: Journal of Comparative Neurology 377 (3):p341-350 1997

ISSN: 0021-9967

RECORD TYPE: Abstract

LANGUAGE: English

ABSTRACT: We previously developed a reaggregate cell culture system (pellet cultures) in which retinal *neuroepithelial* *cells* proliferate and give rise to rod photoreceptor cells (rods) in vitro (Watanabe and Raff, 1990, Neuron 4:461-467). In the present study, we analyzed...

...most were able to develop from dividing precursor cells in vitro. The different cell types in the pellets became organized into two distinct structures: dark *rosettes* and pale *rosettes*. The cellular composition

of these structures indicated that the dark *rosettes* correspond to the outer nuclear layer and the pale *rosettes* to the inner nuclear layer of the normal retina. Ultrastructural studies have indicated that the thin layer of neuronal processes surrounding the dark *rosettes* correspond to the outer plexiform layer, and the central region of the pale *rosettes* correspond to the inner plexiform layer of the normal retina. Other features of normal retinal development also occurred in the pellets, including programmed cell death...

6/3, K/25 (Item 5 from file: 5)
DIALOG(R) File 5:Biosis Previews(R)
(c) 2003 BIOSIS. All rts. reserv.

03545044 BIOSIS NO.: 000073048125

NEURAL DIFFERENTIATION IN THE OTT-6050 MOUSE TERATOMA PRODUCTION OF A TUMOR FRACTION SHOWING MELANOGENESIS IN NEURO EPITHELIAL CELLS AFTER CENTRIFUGAL ELUTRIATION

AUTHOR: VANDENBERG S R; HESS J R; HERMAN M M; DEARMOND S J; HALKS-MILLER M; RUBINSTEIN L J

AUTHOR ADDRESS: DIV. NEUROPATHOL., DEP. PATHOL., UNIV. VA. SCH. MED., CHARLOTTESVILLE, VA. 22908, USA.

JOURNAL: VIRCHOWS ARCH A PATHOL ANAT HISTOL 392 (3). 1981. 295-308. 1981

FULL JOURNAL NAME: Virchows Archiv A Pathological Anatomy and Histology

CODEN: VAPHD

RECORD TYPE: Abstract

LANGUAGE: ENGLISH

...ABSTRACT: procedures were applied to the OTT-6050 mouse teratoma line carried in s.c. implants in 129/J mice in order to enrich the differentiating *neuroepithelial* *cells*. Subsequent renal subcapsular implantation of one of the resultant cell fractions (IB-9) in syngeneic mice led to the constant production of macroscopically pigmented tumors which, in addition to undifferentiated stem cells, contained primitive neuroepithelial populations composed of medullary epithelium, neuroblasts, and numerous ependymoblastic *rosettes*. Melanin pigment, confirmed by the presence of melanosomes and premelanosomes, was found in medullary epithelium and other primitive neural cells. The tumors preserved their characteristics...

DESCRIPTORS: HUMAN NEURO ECTODERMAL TUMOR MELANIN PIGMENT MELANOSOME EPENDYMO BLASTIC *ROSETTE* SYNGENEIC HOST RENAL TUMOR INTRA CEREBRAL TRANSPLANT SUB CUTANEOUS IMPLANT IN-VITRO ORGAN CULTURE

6/3, K/26 (Item 6 from file: 5)
DIALOG(R) File 5:Biosis Previews(R)
(c) 2003 BIOSIS. All rts. reserv.

02758376 BIOSIS NO.: 000068068984

AN ELECTRON MICROSCOPIC ANALYSIS OF ABNORMAL EPENDYMAL CELL PROLIFERATION AND ENVELOPMENT OF SPROUTING AXONS FOLLOWING SPINAL CORD TRANSECTION IN THE RAT

AUTHOR: MATTHEWS M A; ONGE M F S; FACIANE C L

AUTHOR ADDRESS: DEP. ANAT., LA. STATE UNIV. MED. CENT., 1100 FLORIDA AVE., NEW ORLEANS, LA. 70119, USA.

JOURNAL: ACTA NEUROPATHOL 45 (1). 1979. 27-36. 1979

FULL JOURNAL NAME: Acta Neuropathologica

CODEN: ANPTA

RECORD TYPE: Abstract

LANGUAGE: ENGLISH

...ABSTRACT: of which maintain contiguity with those elements lining the central canal while other clusters were found several 100 .mu.m distant in the gray matter. *Rosettes* with distinct lumina often occurred in such cellular aggregates and were similar in arrangement of those patterns displayed by primitive *neuroepithelial* *cells* following experimental manipulation (Watterson, 1965). EM revealed typical oval

euchromatin nuclei with pale cytoplasm containing concentrations of filaments. Examination of *rosette* lumina revealed normal apical specializations including cilia with basal bodies, microvilli, and numerous zonulae adherentes. Intracytoplasmic vacuole formation with abnormal microvilli and cilia were reminiscent...

6/3,K/27 (Item 1 from file: 73)

DIALOG(R)File 73:EMBASE

(c) 2003 Elsevier Science B.V. All rts. reserv.

11029087 EMBASE No: 2000129826

Blastomatous tumor with teratoid features of nasal cavity: Report of a case and review of the literature

Deveci M.S.; Deveci G.

Dr. M.S. Deveci, Department of Pathology, Gulhane Military Medical Academy, School of Medicine, TR-06018 Etlik/Ankara Turkey
Pathology International (PATHOL. INT.) (Japan) 2000, 50/1 (71-75)

CODEN: PITEE ISSN: 1320-5463

DOCUMENT TYPE: Journal ; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 15

...features is presented. The polypoid mass was observed in the left nasal cavity of a 72-year-old man. Histologically, the lesion was composed of *neuroepithelial* *cells* with blastomatous appearance, cystic squamous nests filled with keratin materials, many mucous glands, complex tubular and glandular structures with edematous fibroblastic stroma. Sinonasal neoplasms including...

MEDICAL DESCRIPTORS:

histopathology; squamous cell carcinoma; neuroepithelium; fibroblast; mesenchyme cell; teratocarcinoma; stroma cell; neuroblastoma; *rosette* formation; human; male; case report; aged; article; priority journal

6/3,K/28 (Item 2 from file: 73)

DIALOG(R)File 73:EMBASE

(c) 2003 Elsevier Science B.V. All rts. reserv.

07296472 EMBASE No: 1998179463

Basic FGF-responsive telencephalic precursor cells express functional GABA(A) receptor/Cl^{sup} - channels in vitro

Ma W.; Liu Q.-Y.; Maric D.; Sathanoori R.; Chang Y.-H.; Barker J.L.

W. Ma, Laboratory of Neurophysiology, NINDS-NIH, Building 36, Bethesda, MD 20892 United States

Journal of Neurobiology (J. NEUROBIOL.) (United States) 1998, 35/3 (277-286)

CODEN: JNEUB ISSN: 0022-3034

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 24

...gamma-aminobutyric acid (GABA) (A) receptor subunits and their transcripts in the cortical neuroepithelium (Ma and Barker, 1995, 1998). However, it is not clear whether *neural* *precursor* cells exposed to basic fibroblast growth factor (bFGF) in vitro reproduce the biological properties of *neuroepithelial* *cells* in vivo within the embryonic ventricular zone. In the present study, *neural* *precursor* cells were isolated from the telencephalic neuroepithelium of embryonic day 13-13.5 rats and exposed to bFGF in serum-free medium. Basic FGF-responsive cells were capable of dividing and differentiating into neurons and astrocytes. The rapidly dividing cells formed multicellular spheres and then a *rosette*-like formation in which a majority of cells expressed GABA_A receptor alpha4, beta1, or gamma1 subunit proteins. We found in perforated patch-clamp recordings that...

6/3,K/29 (Item 3 from file: 73)

DIALOG(R)File 73:EMBASE

(c) 2003 Elsevier Science B.V. All rts. reserv.

04099362 EMBASE No: 1989268408

Aberrant differentiation of *neuroepithelial* *cells* in developing mouse brains subsequent to retinoic acid exposure in utero

Yashuda Y.; Konishi H.; Matsuo T.; Kihara T.; Tanimura T.

Department of Anatomy, Kinki University School of Medicine, Osaka 589

Japan

American Journal of Anatomy (AM. J. ANAT.) (United States) 1989, 186/3 (271-284)

CODEN: AJANA ISSN: 0002-9106

DOCUMENT TYPE: Journal

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

Aberrant differentiation of *neuroepithelial* *cells* in developing mouse brains subsequent to retinoic acid exposure in utero

...folds in the mesencephalon with the discontinuity of the apical terminal sheet. The continuous disorganization was seen from the olfactory placode to the myelencephalon with *rosettes* of cells and many dense bodies in the neuroepithelium. Ultrastructurally, cells in the localized disorganizations showed swelling of Golgi complexes, coated vesicles, and rough endoplasmic...

...and cytoplasm showed monosomal dispersion. In both types of disorganized neuroepithelium, junctional complexes were seen focally at the apical side or apical processes of the *rosette*, with few or no microfilament bundles. A layer of microfilaments at the base of the *neuroepithelial* *cells* in controls, just above the basal lamina, was not present in the monosome dispersed cytoplasm. In the neuroepithelium of controls, one phagosome was seen in...

...in a cell, and phagocytosis occurred by pseudopods. These findings suggest that all-trans-retinoic acid induces not only cytotoxicity but also dedifferentiation in the *neuroepithelial* *cells* leading to more cell death, which activates the phagocytosis. These lesions in the neuroepithelium may be a cause of exencephaly.

6/3,K/30 (Item 4 from file: 73)

DIALOG(R)File 73:EMBASE

(c) 2003 Elsevier Science B.V. All rts. reserv.

01281416 EMBASE No: 1979001900

Malignant medulloepithelioma of the optic nerve in a horse

Eagle Jr. R.C.; Font R.L.; Swerczek T.W.

Registry Ophthalm. Pathol., Armed Forces Inst. Pathol., Washington, D.C. 20306 United States

Veterinary Pathology (VET. PATHOL.) (United States) 1978, 15/4 (488-494)

CODEN: VTPHA

DOCUMENT TYPE: Journal

LANGUAGE: ENGLISH

...was a malignant medulloepithelioma, a rare intraocular neoplasm derived from the primitive medullary epithelium. By light microscopy the tumor had cords and lobules of primitive *neuroepithelial* *cells* that formed clefts and true *rosettes*. Electron microscopy of the *rosettes* showed a girdle of zonulae adherentes joining the apices of the cells as well as several basal bodies. This is the sixth report of equine...

6/3,K/31 (Item 5 from file: 73)

DIALOG(R)File 73:EMBASE

(c) 2003 Elsevier Science B.V. All rts. reserv.

01269708 EMBASE No: 103403175

***Rosette* formation in retinoblastoma**

Amemiya T.

Dept. Ophthalmol., Fac. Med., Kyoto Univ., Kyoto Japan

Japanese Journal of Ophthalmology (JPN. J. OPHTHALMOL.) (Japan) 1978,
22/3 (375-380)

CODEN: JJOPA

DOCUMENT TYPE: Journal

LANGUAGE: ENGLISH

***Rosette* formation in retinoblastoma**

Rosette formation in retinoblastoma was studied by electron microscopy.

Neuroepithelial *cells* of retinoblastoma showed a paving stone-like arrangement, which contained a mixture of *rosettes*, pseudorosettes and clusters of cells with large amounts of cytoplasm. Cells with much cytoplasm and eccentrically situated nuclei faced each other and were connected by...

...appeared in the center of the clusters as a result of the development of the cellular surface without intercellular attachments. This is the process of *rosette* formation in retinoblastoma. Therefore, *rosettes* in retinoblastoma result from the development of tumor cells (*neuroepithelial* *cells*) with intercellular attachments, and have no particular relationship to the nature of the tumor.

MEDICAL DESCRIPTORS:

*retinoblastoma; **rosette* forming cell

?ds

Set Items Description

S1 0 ((NEURAL (W) PRECURSOR) OR (NEUROEPITHELIAL (W) CELLS) OR (- NEURAL (W) STEM (W) CELLS)) (S) (ROSETTE?)

S2 0 (NEUROEPITHELIAL (W) CELLS) (S) (ROSETTE?)

S3 18 (NEURAL (W) ROSETTE?)

S4 7 RD S3 (unique items)

S5 64 ((NEURAL (W) PRECURSOR) OR (NEUROEPITHELIAL (W) CELLS) OR - (NEURAL (W) STEM (W) CELLS)) AND (ROSETTE?)

S6 31 RD (unique items)

?s (primate or human) (s) (embryonic (w) stem (w) cell?)

Processing

Processing

53354 PRIMATE

18401881 HUMAN

216050 EMBRYONIC

309417 STEM

7829481 CELL?

S7 1499 (PRIMATE OR HUMAN) (S) (EMBRYONIC (W) STEM (W) CELL?)

?s s7 and ((embryoid (w) bodies) or (EBS))

1499 S7

2003 EMBRYOID

205836 BODIES

1381 EMBRYOID(W) BODIES

1496 EBS

S8 66 S7 AND ((EMBRYOID (W) BODIES) OR (EBS))

?s s8 and (rosette?)

66 S8

36663 ROSETTE?

S9 0 S8 AND (ROSETTE?)

?s s8 and (FGF-2 or (FGF (w) 2))

66 S8

140 FGF-2

18552 FGF

7795765 2

4487 FGF(W) 2

S10 3 S8 AND (FGF-2 OR (FGF (W) 2))

?rd

...completed examining records

S11 1 RD (unique items)
?t s11/3,k/all

11/3,K/1 (Item 1 from file: 155)
DIALOG(R) File 155: MEDLINE(R)
(c) format only 2003 The Dialog Corp. All rts. reserv.

09782638 21588753 PMID: 11731781

In vitro differentiation of transplantable neural precursors from *human*
embryonic *stem* *cells*.

Zhang S C; Wernig M; Duncan I D; Brustle O; Thomson J A
Department of Anatomy, University of Wisconsin 1500 Highland Avenue,
Madison, WI 53705, USA. zhang@waisman.wisc.edu

Nature biotechnology (United States) Dec 2001, 19 (12) p1129-33,
ISSN 1087-0156 Journal Code: 9604648

Comment in Nat Biotechnol. 2001 Dec;19(12) 1117-8; Comment in PMID
11731775

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

In vitro differentiation of transplantable neural precursors from *human*
embryonic *stem* *cells*.

... types for transplantation therapies. Here we describe the in vitro
differentiation, enrichment, and transplantation of neural precursor cells
from human ES cells. Upon aggregation to *embryoid* *bodies*,
differentiating ES cells formed large numbers of neural tube-like
structures in the presence of fibroblast growth factor 2 (*FGF*-2*).
Neural precursors within these formations were isolated by selective
enzymatic digestion and further purified on the basis of differential
adhesion. Following withdrawal of *FGF*-2*, they differentiated into
neurons, astrocytes, and oligodendrocytes. After transplantation into the
neonatal mouse brain, human ES cell-derived neural precursors were
incorporated into a variety...

?ds

| Set | Items | Description |
|-----|--|--|
| S1 | 0 | ((NEURAL (W) PRECURSOR) OR (NEUROEPITHELIAL (W) CELLS) OR (- NEURAL (W) STEM (W) CELLS)) (S) (ROSETTE?) |
| S2 | 0 | (NEUROEPITHELIAL (W) CELLS) (S) (ROSETTE?) |
| S3 | 18 | (NEURAL (W) ROSETTE?) |
| S4 | 7 | RD S3 (unique items) |
| S5 | 64 | ((NEURAL (W) PRECURSOR) OR (NEUROEPITHELIAL (W) CELLS) OR - (NEURAL (W) STEM (W) CELLS)) AND (ROSETTE?) |
| S6 | 31 | RD (unique items) |
| S7 | 1499 | (PRIMATE OR HUMAN) (S) (EMBRYONIC (W) STEM (W) CELL?) |
| S8 | 66 | S7 AND ((EMBRYOID (W) BODIES) OR (EBS)) |
| S9 | 0 | S8 AND (ROSETTE?) |
| S10 | 3 | S8 AND (FGF-2 OR (FGF (W) 2)) |
| S11 | 1 | RD (unique items) |
| ?s | s8 and ((neural (w) precursor?) or (neural (w) precursor (w) cells)) | |
| | 66 | S8 |
| | 893696 | NEURAL |
| | 313946 | PRECURSOR? |
| | 1726 | NEURAL (W) PRECURSOR? |
| | 893696 | NEURAL |
| | 208751 | PRECURSOR |
| | 4353304 | CELLS |
| | 818 | NEURAL (W) PRECURSOR (W) CELLS |
| S12 | 6 | S8 AND ((NEURAL (W) PRECURSOR?) OR (NEURAL (W) PRECURSOR (W) CELLS)) |

?rd

...completed examining records

S13 2 RD (unique items)

?t s13/3,k/all

13/3,K/1 (Item 1 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

09782638 21588753 PMID: 11731781

In vitro differentiation of transplantable *neural* *precursors* from *human* *embryonic* *stem* *cells*.

Zhang S C; Wernig M; Duncan I D; Brustle O; Thomson J A
Department of Anatomy, University of Wisconsin 1500 Highland Avenue,
Madison, WI 53705, USA. zhang@waisman.wisc.edu

Nature biotechnology (United States) Dec 2001, 19 (12) p1129-33,

ISSN 1087-0156 Journal Code: 9604648

Comment in Nat Biotechnol. 2001 Dec;19(12) 1117-8; Comment in PMID
11731775

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

In vitro differentiation of transplantable *neural* *precursors* from *human* *embryonic* *stem* *cells*.

... ES) cells promise an almost unlimited supply of specific cell types for transplantation therapies. Here we describe the in vitro differentiation, enrichment, and transplantation of *neural* *precursor* *cells* from human ES cells. Upon aggregation to *embryoid* *bodies*, differentiating ES cells formed large numbers of neural tube-like structures in the presence of fibroblast growth factor 2 (FGF-2). *Neural* *precursors* within these formations were isolated by selective enzymatic digestion and further purified on the basis of differential adhesion. Following withdrawal of FGF-2, they differentiated into neurons, astrocytes, and oligodendrocytes. After transplantation into the neonatal mouse brain, human ES cell-derived *neural* *precursors* were incorporated into a variety of brain regions, where they differentiated into both neurons and astrocytes. No teratoma formation was observed in the transplant recipients. These results depict human ES cells as a source of transplantable *neural* *precursors* for possible nervous system repair.

13/3,K/2 (Item 2 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

09769037 21573979 PMID: 11716562

Enrichment of neurons and *neural* *precursors* from *human* *embryonic* *stem* *cells*.

Carpenter M K; Inokuma M S; Denham J; Mujtaba T; Chiu C P; Rao M S
Geron Corporation, 230 Constitution Drive, Menlo Park, California 94025,
USA. mcarpenter@geron.com

Experimental neurology (United States) Dec 2001, 172 (2) p383-97,

ISSN 0014-4886 Journal Code: 0370712

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Enrichment of neurons and *neural* *precursors* from *human* *embryonic* *stem* *cells*.

... months in vitro (over 100 population doublings) before their ability to differentiate into the neural lineage was evaluated. Differentiation was induced by the formation of *embryoid* *bodies* that were subsequently plated onto appropriate substrates in defined medium (containing mitogens). These populations contained cells that showed positive immunoreactivity to nestin, polysialylated neural cell...

?ds

Set Items Description

S1 0 ((NEURAL (W) PRECURSOR) OR (NEROEPITHELIAL (W) CELLS) OR (-

```

        NEURAL (W) STEM (W) CELLS)) (S) (ROSSETTE?) )
S2      0  (NEUROEPITHELIAL (W) CELLS) (S) (ROSSETTE?),
S3      18 (NEURAL (W) ROSETTE?),
S4      7  RD S3 (unique items)
S5      64 ((NEURAL (W) PRECURSOR) OR (NEUROEPITHELIAL (W) CELLS) OR -
        (NEURAL (W) STEM (W) CELLS)) AND (ROSETTE?),
S6      31 RD (unique items)
S7      1499 (PRIMATE OR HUMAN) (S) (EMBRYONIC (W) STEM (W) CELL?),
S8      66 S7 AND ((EMBRYOID (W) BODIES) OR (EBS))
S9      0  S8 AND (ROSETTE?),
S10     3  S8 AND (FGF-2 OR (FGF (W) 2))
S11     1  RD (unique items)
S12     6  S8 AND ((NEURAL (W) PRECURSOR?) OR (NEURAL (W) PRECURSOR (-
        W) CELLS))
S13     2  RD (unique items)
?s s8 and (neural (w) tube (w) formation)
       66 S8
       893696 NEURAL
       183108 TUBE
       1211092 FORMATION
       287 NEURAL (W) TUBE (W) FORMATION
S14      0  S8 AND (NEURAL (W) TUBE (W) FORMATION)
?ds

```

| Set | Items | Description |
|-----|-------|--|
| S1 | 0 | ((NEURAL (W) PRECURSOR) OR (NEUROEPITHELIAL (W) CELLS) OR (- NEURAL (W) STEM (W) CELLS)) (S) (ROSSETTE?) |
| S2 | 0 | (NEUROEPITHELIAL (W) CELLS) (S) (ROSSETTE?), |
| S3 | 18 | (NEURAL (W) ROSETTE?), |
| S4 | 7 | RD S3 (unique items) |
| S5 | 64 | ((NEURAL (W) PRECURSOR) OR (NEUROEPITHELIAL (W) CELLS) OR - (NEURAL (W) STEM (W) CELLS)) AND (ROSETTE?), |
| S6 | 31 | RD (unique items) |
| S7 | 1499 | (PRIMATE OR HUMAN) (S) (EMBRYONIC (W) STEM (W) CELL?), |
| S8 | 66 | S7 AND ((EMBRYOID (W) BODIES) OR (EBS)) |
| S9 | 0 | S8 AND (ROSETTE?), |
| S10 | 3 | S8 AND (FGF-2 OR (FGF (W) 2)) |
| S11 | 1 | RD (unique items) |
| S12 | 6 | S8 AND ((NEURAL (W) PRECURSOR?) OR (NEURAL (W) PRECURSOR (- W) CELLS)) |
| S13 | 2 | RD (unique items) |
| S14 | 0 | S8 AND (NEURAL (W) TUBE (W) FORMATION) |

```

?logoff
17jun03 14:28:03 User259876 Session D517.2
      $6.50    2.032 DialUnits File155
      $6.09    29 Type(s) in Format  3
      $6.09    29 Types
$12.59  Estimated cost File155
      $13.77   2.459 DialUnits File5
      $12.25    7 Type(s) in Format  3
      $12.25    7 Types
$26.02  Estimated cost File5
      $15.40   1.665 DialUnits File73
      $12.75    5 Type(s) in Format  3
      $12.75    5 Types
$28.15  Estimated cost File73
      OneSearch, 3 files,  6.156 DialUnits FileOS
      $4.66    TELNET
$71.42  Estimated cost this search
$71.79  Estimated total session cost   6.250 DialUnits

```

Status: Signed Off. (20 minutes)